

**ABSTRACT OF THE DISCLOSURE**

This invention provides an evaluation board for evaluating one or more  
5 aspects of a surface mount technology system. In one aspect, the evaluation  
board has a substrate with at least one surface. A plurality of board pad  
patterns, each including a plurality of board pads, is formed on the surface.  
The different board pad patterns may have different shaped, sized and  
spaced board pads, allowing the characteristics of a surface mount  
10 technology to be tested on some or all of the board pad patterns at the same  
time and under uniform conditions. In another aspect, the surface may have a  
plurality of area-filled board pads similarly allowing a surface mount  
technology to be tested on the various area-filled board pads.